

WHAT IS CLAIMED IS:

1. An adhesive article comprising:

(a) a release liner having a surface with an arrangement of structures thereon, wherein the structures extend downward from a plane of the surface, and wherein the structures have at least three sidewalls, wherein a first sidewall makes an angle with respect to the plane of the surface of greater than about 0° and less than 90° and a second sidewall makes an angle with respect to the plane of the surface of greater than 0° and less than about 90° , wherein the first sidewall angle differs from the second sidewall angle by more than about 10° ; and

(b) an adhesive layer on the surface of the release liner.

2. The adhesive article of claim 1, wherein the first sidewall angle differs from the second sidewall angle by more than about 20° .

3. The adhesive article of claim 1, wherein the first sidewall angle differs from the second sidewall angle by more than about 30° .

4. The adhesive article of claim 1, wherein the second sidewall makes an angle with respect to the plane of the surface of greater than about 45° and less than about 85° .

5. The adhesive article of claim 1, wherein the second sidewall makes an angle with respect to the plane of the surface of greater than about 50° and less than about 70° .

6. The adhesive article of claim 1, wherein the second sidewall makes an angle with respect to the plane of the surface of greater than about 45° and less than about 85° , and wherein the first sidewall makes an angle with respect to the plane of the surface of less than about 50° .

7. The adhesive article of claim 6, wherein the first sidewall makes an angle with respect to the plane of the surface of less than about 35° .

8. The adhesive article of claim 1, wherein the structures have a pitch of less than about 2500 micrometers.

9. The adhesive article of claim 1, wherein the structures have a pitch of less than about 350 micrometers.

10. The adhesive article of claim 1, wherein the structures form a substantially continuous and substantially regular pattern on the surface.

11. The adhesive article of claim 1, further comprising a third sidewall, wherein the first sidewall and the third sidewall make an angle with respect to the plane of the surface of less than about 50°.

12. The adhesive article of claim 11, wherein the first and third sidewall angles are substantially equal.

13. The adhesive article of claim 1, further comprising a third sidewall and a fourth sidewall, wherein the first sidewall and the third sidewall make an angle with respect to the plane of the surface of less than about 35°, wherein the first sidewall angle and the third sidewall angle are substantially equal, and wherein the second sidewall and the fourth sidewall make an angle with respect to the plane of the surface of greater than about 45° and less than about 90°, wherein the second sidewall and the fourth sidewall angles are substantially equal.

14. The adhesive article of claim 1, wherein the structures comprise at least four sidewalls, wherein three sidewalls make an angle with respect to the plane of the surface of less than about 50°.

15. The adhesive article of claim 14, wherein the three sidewall angles are substantially equal.

16. The adhesive article of claim 14, wherein the three sidewalls make an angle with respect to the plane of the surface of less than about 35°, wherein the three sidewall angles are substantially equal, and wherein one sidewall makes an angle with respect to the plane of the surface of greater than about 45° and less than about 90°.

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17. An adhesive article comprising an adhesive layer having a surface with an arrangement of structures thereon, wherein the structures extend upward from a plane of the surface, and wherein the structures have at least three sidewalls, wherein a first sidewall makes an angle with respect to the plane of the surface of greater than about 0°
10 and less than 90° and a second sidewall makes an angle with respect to the plane of the surface of greater than 0° and less than about 90°, wherein the first sidewall angle differs from the second sidewall angle by more than about 10°.

18. The adhesive article of claim 17, wherein the first sidewall angle differs from the
15 second sidewall angle by more than about 20°.

19. The adhesive article of claim 17, wherein the first sidewall angle differs from the second sidewall angle by more than about 30°.

20. The adhesive article of claim 17, wherein the second sidewall makes an angle with respect to the plane of the surface of greater than about 45° and less than to about 85°.

21. The adhesive article of claim 17, wherein the second sidewall makes an angle with respect to the plane of the surface of greater than about 50° and less than to about 70°.

20 22. The adhesive article of claim 17, wherein the second sidewall makes an angle with respect to the plane of the surface of greater than about 45° and less than about 85°, and wherein the first sidewall makes an angle with respect to the plane of the surface of less than about 50°.

25 23. The adhesive article of claim 17, wherein the first sidewall makes an angle with respect to the plane of the surface of less than about 35°.

24. The adhesive article of claim 17, wherein the structures have a pitch of less than about 2500 micrometers.

5 25. The adhesive article of claim 17, wherein the structures have a pitch of less than about 350 micrometers.

26. The adhesive article of claim 17, wherein the structures form a substantially continuous and substantially regular pattern.

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27. The adhesive article of claim 17, wherein the structures have a substantially trapezoidal cross-sectional shape with a substantially flat top.

15 28. The adhesive article of claim 17, wherein the tops of the structures comprise a ridge that is substantially parallel to the plane of the surface.

29. A release liner having a surface with an arrangement of structures thereon, wherein the structures extend downward from a plane of the surface, and wherein the structures have at least three sidewalls, wherein a first sidewall makes an angle with respect to the plane of the surface of greater than about 0° and less than 90° and a second sidewall makes an angle with respect to the plane of the surface of greater than 0° and less than about 90°, wherein the first sidewall angle differs from the second sidewall angle by more than about 10°.

25 30. A method for increasing coating speed, comprising applying an adhesive to a release liner having a surface with an arrangement of structures thereon, wherein the structures extend downward from a plane of the surface, and wherein the structures have at least three sidewalls, wherein at least one of a first sidewall and a third sidewall makes an angle with respect to the plane of the surface of less than about 45°, and
30 wherein a second sidewall makes an angle with respect to the plane of the surface of greater than about 45° and less than 85°, wherein the second sidewall angle differs from

the first sidewall angle or the third sidewall angle by more than about 20°, and wherein the first and third sidewalls are proximal to a leading edge of the adhesive.

31. The method of claim 30, wherein a lateral edge between the first and third sidewalls is oriented substantially perpendicular to the leading edge of the adhesive.

32. A method of transferring a graphic article comprising:

(a) providing a graphic article including a film with a first surface and a second surface, wherein an image occupies at least a portion of the first surface, an adhesive layer on the second surface of the film, and a release liner on the adhesive layer, wherein the release liner has a surface with an arrangement of structures thereon, wherein the structures extend downward from a plane of the surface, and wherein the structures have at least three sidewalls, wherein a first sidewall makes an angle with respect to the plane of the surface of greater than about 0° and less than 90° and a second sidewall makes an angle with respect to the plane of the surface of greater than 0° and less than about 90°, wherein the first sidewall angle differs from the second sidewall angle by more than about 10°;

(b) removing the film and the adhesive layer under portions of the first surface not occupied by the image such that at least a portion of the surface of the release liner is exposed;

(c) attaching a handling tape to the image and the exposed portion of the release liner; and

(d) transferring the article into registration with a substrate.

33. The method of claim 32, wherein the handling tape is selected from a pre-mask tape, a pre-space tape, and a splicing tape.

34. A release liner with a surface comprising an arrangement of pyramidal depressions thereon, wherein the depressions are capable of adhering to a handling tape at an adhesion value of greater than about 2 N/dm after 5 days at 50°C, as measured by a Prespace Tape Adhesion Test.

35. The release liner of claim 34, wherein the pyramidal depressions have a first sidewall that makes an angle with respect to the plane of the surface of about 50° or less and a second sidewall makes an angle with respect to the plane of the surface of greater than about 50° and less than about 90°, wherein the first sidewall angle differs from the second sidewall angle by about 20° or more.

36. The release liner of claim 35, wherein the depressions have a pitch of less than about 350 micrometers